

ABSTRACT

There are provided a liquid-jet head which can reliably prevent breakage of piezoelectric elements over a long period of time, and a method for manufacturing the liquid-jet head, as well as a liquid-jet apparatus. Further, there are provided a liquid-jet head which can effectively prevent a drop in the amount of displacement of a vibration plate caused through drive of a piezoelectric element, and a method for manufacturing the liquid-jet head, as well as a liquid-jet apparatus.

A liquid-jet head includes a channel substrate 10 which has pressure generation chambers 12 formed therein and communicating nozzle orifices for discharging liquid droplets, and piezoelectric elements 300 each of which is composed of a lower electrode 60, a piezoelectric layer 70, and an upper electrode 80 and which are disposed on one surface of the channel substrate 10 via a vibration plate, wherein at least pattern regions of the respective layers which constitute the piezoelectric elements 300 are covered with an insulating film 100 formed of an inorganic insulating material.